

Listing of Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1–20. (Canceled)

21. (Currently Amended) A device for assisting a patient in promoting the expectoration of secretions from the lungs, said device comprising:
a main unit including:

a microcontroller ~~so configured as to generate~~ for generating digital electrical signals ~~having a frequency in a range of about 30 Hertz to about 120 Hertz;~~

a user interface for adjusting the frequency of said digital electrical signals;

a Digital to Analog Converter for converting said digital electrical signals into analog signals

an adjustable amplifier ~~so configured as to amplify~~ for amplifying said analog signals ~~in a range of about 10 Watts to about 50 Watts;~~

a treatment interface operatively connected to the main unit, including:

an acoustic transducer for converting said amplified analog signal into acoustic waves; and

an acoustic coupling chamber coupled to said acoustic transducer, said acoustic coupling chamber creating an enclosed gap between said acoustic transducer and an overlaying skin surface of [[a]] said patient when said treatment interface is applied to a chest cavity of the said patient;

wherein said digital electrical signals have a frequency located in a range of about 30 Hertz to about 120 Hertz and said analog signals have a power located in a range of about 10 Watts to about 50 Watts to efficiently promote the expectoration of secretions from the lungs of said patient.

22. (Currently Amended) A device as defined in claim 21, wherein said ~~microcontroller is so configured as to generate~~ digital electrical signals ~~having~~ have a frequency located in a range of about 30 Hertz to about 70 Hertz.
23. (Currently Amended) A device as defined in claim 21, wherein said ~~microcontroller is so configured as to generate~~ digital electrical signals ~~which~~ are sinusoidal.
24. (Currently Amended) A device as defined in claim 21, wherein said ~~microcontroller is so configured as to generate~~ digital electrical signals ~~which~~ are pulses having a duration of 0.5 seconds at a repetition of once every second.
25. (Canceled)
26. (Previously Presented) A device as defined in claim 21, wherein said enclosed air gap is in a range of about 1 to 2 inches.
27. (Previously Presented) A device as defined in claim 21, wherein said acoustic coupling chamber is detachably coupled to said acoustic transducer.
28. (Previously Presented) A device as defined in claim 21, wherein said acoustic coupling chamber is composed of a sterilizable material.
29. (Previously Presented) A device as defined in claim 21, wherein said acoustic transducer has a diameter in a range of about 3 to 6 inches.
30. (Previously Presented) A device as defined in claim 21, wherein said acoustic transducer includes a support member.

31. (Previously Presented) A device as defined in claim 21, wherein said user interface is a keypad.
32. (Previously Presented) A device as defined in claim 21, wherein said user interface is a keyboard.
33. (Previously Presented) A device as defined in claim 21, further comprising a display unit operatively connected to the microcontroller.
34. (Previously Presented) A device as defined in claim 33, wherein said display unit is a LCD.
35. (Currently Amended) A device as defined in claim 21, further comprising an input/output input/output operatively connected to the said microcontroller.

36. (Currently Amended) A device for assisting a patient in promoting the expectoration of secretions from the lungs, said device comprising:

a main unit including:

an adjustable frequency generator ~~so configured as to generate~~ for generating electrical signals ~~having a frequency in a range of about 30 Hertz to about 120 Hertz;~~

an adjustable amplifier ~~so configured as to amplify~~ for amplifying said electrical signals ~~in a range of about 10 Watts to about 50 Watts;~~

a treatment interface operatively connected to the main unit, including:

an acoustic transducer for converting said amplified electrical signals into acoustic waves; and

an acoustic coupling chamber coupled to said acoustic transducer, said acoustic coupling chamber creating an enclosed air gap between said acoustic transducer and an overlaying skin surface of [[a]] said patient when said treatment interface is applied to a chest cavity of ~~the~~ said patient;

wherein said electrical signals have a frequency located in a range of about 30 Hertz to about 120 Hertz and said amplified electrical signals have a power located in a range of about 10 Watts to about 50 Watts to efficiently promote the expectoration of secretions from the lungs of said patient.

37. (Currently Amended) A device as defined in claim 36, wherein said ~~adjustable frequency generator is so configured as to generate~~ electrical signals having ~~have a~~ frequency located in a range of about 30 Hertz to about 70 Hertz.

38. (Currently Amended) A device as defined in claim 36, wherein said ~~adjustable frequency generator is so configured as to generate~~ electrical signals which are sinusoidal.

39. (Currently Amended) A device as defined in claim 36, wherein said ~~adjustable frequency generator is so configured as to generate~~ electrical signals ~~which are~~ pulses having a duration of 0.5 seconds at a repetition of once every second.
40. (canceled)
41. (Previously Presented) A device as defined in claim 36, wherein said enclosed air gap is in a range of about 1 to 2 inches.
42. (Previously Presented) A device as defined in claim 36, wherein said acoustic coupling chamber is detachably coupled to said acoustic transducer.
43. (Previously Presented) The device as defined in claim 36, wherein said acoustic coupling chamber is composed of a sterilizable material.
44. (Previously Presented) The device as defined in claim 36, wherein said acoustic transducer has a diameter in a range of about 3 to 6 inches.
45. (Previously Presented) The device as defined in claim 36, wherein said acoustic transducer includes a support member.